Vol. 167 Nos. 1 and 2

gene

29 December 1995

W. Szybalski – Editor-in-Chief

CONTENTS

Arrecubieta, C., García, E. and López, R. 1–7
Sequence and transcriptional analysis of a DNA region involved in the production of capsular polysaccharide in *Streptococcus pneumoniae* type 3

Rodríguez-García, A., Martín, J.F. and Liras, P. 9–15
The *argG* gene of *Streptomyces clavuligerus* has low homology to unstable *argG* from other actinomycetes: effect of amplification on clavulanic acid biosynthesis

Liang, X., Oono, Y., Shen, N.F., Köhler, C., Li, K., Scolnik, P.A. and Theologis, A. 17–24
Characterization of two members (*ACS1* and *ACS3*) of the 1-aminocyclopropane-1-carboxylate synthase gene family of *Arabidopsis thaliana*

Schwaab, V., Baud, E., Ghyselinck, N., Mattei, M.-G., Dufaure, J.-P. and Drevet, J.R. 25–31
Cloning of the mouse gene encoding plasma glutathione peroxidase: organization, sequence and chromosomal localization

Mathavan, S., Gautvik, V.T., Rokkones, E., Olstad, O.K., Kareem, B.N., Maeda, S. and Gautvik, K.M. 33–39
High-level production of human parathyroid hormone in *Bombyx mori* larvae and BmN cells using recombinant baculovirus

Cabibbo, A., Sporeno, E., Toniatti, C., Altamura, S., Savino, R., Paonessa, G. and Ciliberto, G. 41–47
Monovalent phage display of human interleukin (hIL)-6: selection of superbinder variants from a complex molecular repertoire in the hIL-6 D-helix

Short Communications

Van Zonneveld, A.-J., Van den Berg, B.M.M., Van Meijer, M. and Pannekoek, H. 49–52
Identification of functional interaction sites on proteins using bacteriophage-displayed random epitope libraries

Kahrs, A.F., Odenbreit, S., Schmitt, W., Heuermann, D., Meyer, T.F. and Haas, R. 53–57
An improved Tn*Max* mini-transposon system suitable for sequencing, shuttle mutagenesis and gene fusions

Valinluck, B., Lee, N.S. and Ryu, J. 59–62
A new restriction-modification system, *Kpn*BI, recognized in *Klebsiella pneumoniae*

Airenne, K.J. and Kulomaa, M.S. 63–68
Rapid purification of recombinant proteins fused to chicken avidin

Taylor, S.T. and Menzel, R. 69–74
The creation of a camptothecin-sensitive *Escherichia coli* based on the expression of the human topoisomerase I

Jordan, A., Gibert, I. and Barbé, J. 75–79
Two different operons for the same function: comparison of the *Salmonella typhimurium nrdAB* and *nrdEF* genes

Coyne Jr., M.J. and Goldberg, J.B. 81–86
Cloning and characterization of the gene (*rfc*) encoding O-antigen polymerase of *Pseudomonas aeruginosa* PAO1

Kawasaki, S., Arai, H., Igarashi, Y. and Kodama, T. 87–91
Sequencing and characterization of the downstream region of the genes encoding nitrite reductase and cytochrome *c*-551 (*nirSM*) from *Pseudomonas aeruginosa*: identification of the gene necessary for biosynthesis of heme *d*1

Fujita, M., Hanaura, Y. and Amemura, A. 93–98
Analysis of the *rpoD* gene encoding the principal sigma factor of *Pseudomonas putida*

Dupuis, A., Peinnequin, A., Chevallet, M., Lunardi, J., Darrouzet, E., Pierrard, B., Procaccio, V. and Issartel, J.-P. 99–104
Identification of five *Rhodobacter capsulatus* genes encoding the equivalent of ND subunits of the mitochondrial NADH-ubiquinone oxidoreductase

Rowland, B., Hill, K., Miller, P., Driscoll, J. and Taber, H. 105–109
Structural organization of a *Bacillus subtilis* operon encoding menaquinone biosynthetic enzymes

Domanski, T.L. and Bayles, K.W. 111–113
Analysis of *Staphylococcus aureus* genes encoding penicillin-binding protein 4 and an ABC-type transporter

Lee, C.Y. 115–119
Association of staphylococcal type-1 capsule-encoding genes with a discrete genetic element

Thiara, A.S. and Cundliffe, E. 121–126
Analysis of two capreomycin-resistance determinants from *Streptomyces capreolus* and characterization of the action of their products

Jackson, C.A., Kirszbaum, L., Dashper, S. and Reynolds, E.C. 127–132
Cloning, expression and sequence analysis of the genes encoding the heterodimeric methylmalonyl-CoA mutase of *Porphyromonas gingivalis* W50

Giardina, P.C., Foster, L.-A., Toth, S.I., Roe, B.A. and Dyer, D.W. 133–136
Identification of *alcA*, a *Bordetella bronchiseptica* gene necessary for alcaligin production

Dew-Jager, K., Yu, W.-Q. and Huang, W.M. 137–140
The *recA* gene of *Borrelia burgdorferi*

Pfeiffer, T., Jorcke, D., Feltens, R. and Hartmann, R.K. 141–145
Direct linkage of *str*-, S10- and *spc*-related gene clusters in *Thermus thermophilus* HB8, and sequences of ribosomal proteins L4 and S10

Bouyoub, A., Barbier, G., Querellou, J. and Forterre, P. 147–149
A putative SOS repair gene (*dinF*-like) in a hyperthermophilic archaeon

McGuire, T.M., Carvajal, E., Katzmann, D., Wagner, M., Moye-Rowley, W.S., Goffeau, A. and Golin, J. 151–155
Analysis of second-site mutations that suppress the multiple drug resistance phenotype of the yeast *PDR1*-7 allele

Masuda, Y., Park, S.M., Ohta, A. and Takagi, M. ... 157–161
Cloning and characterization of the *POX2* gene in *Candida maltosa*

Yoshida, H., Yanagi, H. and Yura, T. 163–166
Cloning and characterization of the mitochondrial HSP60-encoding gene of *Schizosaccharomyces pombe*

Marx, F., Haas, H., Reindl, M., Stöffler, G., Lottspeich, F. and Redl, B. 167–171
Cloning, structural organization and regulation of expression of the *Penicillium chrysogenum paf* gene encoding an abundantly secreted protein with antifungal activity

Pishko, E.J., Kirkland, T.N. and Cole, G.T. 173–177
Isolation and characterization of two chitinase-encoding genes (*cts1*, *cts2*) from the fungus *Coccidioides immitis*

Chang, Y.C., Wickes, B.L. and Kwon-Chung, K.J. 179–183
Further analysis of the *CAP59* locus of *Cryptococcus neoformans*: structure defined by forced expression and description of a new ribosomal protein-encoding gene

Wright, T.W., Gigliotti, F., Haidaris, C.G. and Simpson-Haidaris, P.J. 185–189
Cloning and characterization of a conserved region of human and Rhesus macaque *Pneumocystis carinii gpA*

Bosch, T.C.G., Benitez, E., Gellner, K., Praetzel, G. and Salgado, L.M. 191–195
Cloning of a *ras*-related gene from *Hydra* which responds to head-specific signals

(*continued on inside back cover*)

0378-1119(19951229)167:1-2;1-9

Montamat, F., Guilloton, M., Karst, F. and Delrot, S. 197–201
Isolation and characterization of a cDNA encoding *Arabidopsis thaliana* 3-hydroxy-3-methylglutaryl-coenzyme A synthase

Ulmasov, T., Larkin, R.M. and Guilfoyle, T.J. 203–207
Arabidopsis expresses two genes that encode polypeptides similar to the yeast RNA polymerase I and III AC40 subunit

Albani, D. and Robert, L.S. 209–213
Cloning and characterization of a *Brassica napus* gene encoding a homologue of the B subunit of a heteromeric CCAAT-binding factor

Payne, M.S., Petrillo, K.L., Gavagan, J.E., Wagner, L.W., DiCosimo, R. and Anton, D.L. 215–219
High-level production of spinach glycolate oxidase in the methylotrophic yeast *Pichia pastoris*: engineering a biocatalyst

Holm, P.S., Dietel, M. and Krupp, G. 221–225
Similar cleavage efficiencies of an oligoribonucleotide substrate and an *mdr1* mRNA segment by a hammerhead ribozyme

Labbé, J.-C., Jannatipour, M. and Rokeach, L.A. 227–231
The *Caenorhabditis elegans rop-1* gene encodes the homologue of the human 60-kDa Ro autoantigen

Shi, Z.-Z., Habib, G.M., Lebovitz, R.M. and Lieberman, M.W, ... 233–237
Cloning of cDNA and genomic structure of the mouse γ-glutamyl transpeptidase-encoding gene

Ward, A., Pooler, J.-A., Miyagawa, K., Duarte, A., Hastie, N.D. and Caricasole, A. 239–243
Repression of promoters for the mouse insulin-like growth factor II-encoding gene (*Igf-2*) by products of the Wilms' tumour suppressor gene *wt1*

Dubin, R.A., Kazmi, M.A. and Ostrer, H. 245–248
Inverted repeats are necessary for circularization of the mouse testis *Sry* transcript

Manfioletti, G., Rustighi, A., Mantovani, F., Goodwin, G.H. and Giancotti, V. 249–253
Isolation and characterization of the gene coding for murine high-mobility-group protein HMGI-C

Oberto, A., Longone, P. and Krueger, K.E. 255–260
Identification of three transcriptional regulatory elements in the rat mitochondrial benzodiazepine receptor-encoding gene

Brickner, A.G., Gossage, D.L., Dusing, M.R. and Wiginton, D.A. 261–266
Identification of a murine homolog of the human adenosine deaminase thymic enhancer

Izuhara, M., Ito, M. and Takagi, Y. 267–272
Transcription of the rat liver uricase-encoding gene is regulated via a *cis*-acting element responsive to cAMP

Simpson-Haidaris, P.J., Wright, T.W., Earnest, B.J., Hui, Z., Neroni, L.A. and Courtney, M.-A. 273–278
Cloning and characterization of a lung-specific cDNA corresponding to the γ chain of hepatic fibrinogen

Riffkin, M.C., Wang, L.-F., Kortt, A.A. and Stewart, D.J. 279–283
A single amino-acid change between the antigenically different extracellular serine proteases V2 and B2 from *Dichelobacter nodosus*

Sinclair, M.C. and Aitken, R. 285–289
PCR strategies for isolation of the 5′ end of an immunoglobulin-encoding bovine cDNA

Janel, N., Schwachtgen, J.-L., Bakhshi, M.R., Barek, L., Meyer, D. and Kerbiriou-Nabias, D. 291–295
Comparison of the 5′-flanking sequences of the human and bovine von Willebrand factor-encoding genes reveals alternation of highly homologous domains with species-specific *Alu*-type repeats

Umehara, T., Kida, S., Yamamoto, T. and Horikoshi, M. 297–302
Isolation and characterization of a cDNA encoding a new type of human transcription elongation factor S-II

Creasy, C.L. and Chernoff, J. 303–306
Cloning and characterization of a member of the MST subfamily of Ste20-like kinases

Hansen, K.R., Resta, R., Webb, C.F. and Thompson, L.F. 307–312
Isolation and characterization of the promoter of the human 5′-nucleotidase (CD73)-encoding gene

Tisminetzky, S., Devescovi, G., Tripodi, G., Muro, A., Bianchi, G., Colombi, M., Moro, L., Barlati, S., Tuteja, R. and Baralle, F.E. 313–316
Genomic organisation and chromosomal localisation of the gene encoding human beta adducin

Bennett, J., Sun, D. and Karikó, K. 317–320
Sequence analysis of the 5.34-kb 5′ flanking region of the human rhodopsin-encoding gene

Wang, X.Y., Ohtaka-Maruyama, C., Pisano, M.M., Jaworski, C.J. and Chepelinsky, A.B. 321–325
Isolation and characterization of the 5′-flanking sequence of the human ocular lens *MIP* gene

Faerman, M., Filon, D., Kahila, G., Greenblatt, C.L., Smith, P. and Oppenheim, A. 327–332
Sex identification of archaeological human remains based on amplification of the X and Y amelogenin alleles

Brief Notes

Hashimoto-Gotoh, T., Yasojima, K. and Tsujimura, A. 333–334
Plasmids with a kanamycin-resistance gene for site-directed mutagenesis using the oligodeoxyribonucleotide-directed dual amber method

Guérout-Fleury, A.-M., Shazand, K., Frandsen, N. and Stragier, P. 335–336
Antibiotic-resistance cassettes for *Bacillus subtilis*

Thompson, S.A., Golightly, E.J. and Yaver, D.S. 337–338
Nucleotide sequence of the *Aspergillus niger srpA* gene

Stamm, L.V., Frye, J.G. and Hardham, J.M. 339–340
Sequence of the *Leptospira biflexa* serovar patoc *recA* gene

Li, H., Grenet, J. and Kidd, V.J. 341–342
Structure and gene expression of avian cyclin D2

Takizawa, N., Kimura, H. and Sugimoto, K. 343–344
Sequence of mouse *CDC47*, a member of the minichromosome maintenance (Mcm) family involved in the DNA replication licensing system

Announcements 345

Author Index, Vol. 167 (1995) 347–352

GENE–COMBIS

CONTENTS

Sonnhammer, E.L.L., Durbin, R. GC1–GC10
A dot-matrix program with dynamic threshold control suited for genomic DNA and protein sequence analysis